CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-09/155c/CEMENT/2016-17 Date: 30.09.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Project Division, Yelahanka Zone, BBMP, Bangalore.
*AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
*NAME OF THE WORK	:	Construction of Library building near Venugopala swamy temple road in Ward No.02, BBMP, Bangalore.
*REFERENCE	:	EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	28.09.2016
PERIOD OF TESTING	:	28.09.2016 to 30.09.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Quality Manager

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-09/155c/SAND-Gradation/2016-17 : 30.09.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of Work** : Construction of Library building near Venugopala swamy temple road in Ward No.02, BBMP, Bangalore.

Reference : EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 28.09.2016

Date of Testing : 30.09.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.00	90-100	90-100	90-100	95-100
2.36	78.00	60-95	75-100	85-100	95-100
1.18	56.50	30-70	55-90	75-100	90-100
600 Micron	28.30	15-34	35-59	60-79	80-100
300 Micron	15.30	5-20	8-30	12-40	15-50
150 Micron	7.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-09/155c/AGG/GR/2016-17 : 30.09.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of Work** : Construction of Library building near Venugopala swamy temple road in Ward No.02, BBMP, Bangalore.

Reference : EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 28.09.2016

Date of Testing : 30.09.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.40	95-100	85-100
20	33.24	30-70	0-20
10	11.58	10-35	0-5
4.75	1.12	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.02/KRIDL/STEEL/2016-17 30.09.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Project Division, Yelahanka Zone, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Construction of Library building near Venugopala swamy temple road in Ward No.02, BBMP, Bangalore.
Reference	:	EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016
Date of Test	:	30.09.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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Job No.: CTCE/BBMP/W.No.02/KRIDL/STEEL/2016-17 30.09.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Project Division, Yelahanka Zone, BBMP, Bangalore.
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Date of Test	:	30.09.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.02/KRIDL/STEEL/2016-17 30.09.2016

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Reference	:	EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016
Date of Test	:	30.09.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.35	O.K	O.K

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Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	20	2.47	525	569	13.65	O.K	O.K

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Date of Test	:	30.09.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	25	3.85	528	572	14.80	O.K	O.K

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Reference	:	EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016
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Technical Reference	:	IS: 1786-2008

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			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	25	3.85	528	572	14.80	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-09/155c//CUBE/2016-17 31.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Construction of Library building near Venugopala swamy temple road in Ward No.02, BBMP, Bangalore.

* **Reference** : EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016

* **Sample ID** : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 31.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.10.2016	31.10.2016	8.180	478.3	21.26
2	03.10.2016	31.10.2016	8.225	493.2	21.92
3	03.10.2016	31.10.2016	8.326	503.2	22.36

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-09/155c//CUBE/2016-17 31.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Construction of Library building near Venugopala swamy temple road in Ward No.02, BBMP, Bangalore.

* **Reference** : EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016

* **Sample ID** : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 31.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.10.2016	31.10.2016	8.173	485.5	21.58
2	03.10.2016	31.10.2016	8.210	493.6	21.94
3	03.10.2016	31.10.2016	8.310	516.3	22.95

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-09/155c//CUBE/2016-17 07.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Construction of Library building near Venugopala swamy temple road in Ward No.02, BBMP, Bangalore.
* Reference	: EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016
* Sample ID	: Cement concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 07.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.10.2016	07.11.2016	8.102	485.5	21.58
2	10.10.2016	07.11.2016	8.225	490.3	21.79
3	10.10.2016	07.11.2016	8.306	510.2	22.68

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-09/155c//CUBE/2016-17 07.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Construction of Library building near Venugopala swamy temple road in Ward No.02, BBMP, Bangalore.

* **Reference** : EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016

* **Sample ID** : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 07.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.10.2016	07.11.2016	8.110	489.3	21.75
2	10.10.2016	07.11.2016	8.256	502.3	22.32
3	10.10.2016	07.11.2016	8.325	512.6	22.78

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-09/155c//CUBE/2016-17 14.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Construction of Library building near Venugopala swamy temple road in Ward No.02, BBMP, Bangalore.

* **Reference** : EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016

* **Sample ID** : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 14.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2016	14.11.2016	8.099	490.3	21.79
2	17.10.2016	14.11.2016	8.139	503.2	22.36
3	17.10.2016	14.11.2016	8.289	516.3	22.95

* Information is furnished by the Customer/Representative

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-09/155c//CUBE/2016-17 16.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Construction of Library building near Venugopala swamy temple road in Ward No.02, BBMP, Bangalore.

* **Reference** : EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016

* **Sample ID** : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 16.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.10.2016	16.11.2016	8.183	605.3	26.90
2	19.10.2016	16.11.2016	8.230	620.3	27.57
3	19.10.2016	16.11.2016	8.310	625.3	27.79

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* **Sample ID** : Cement concrete

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 16.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.10.2016	16.11.2016	8.116	610.3	27.12
2	19.10.2016	16.11.2016	8.290	620.8	27.59
3	19.10.2016	16.11.2016	8.325	632.8	28.12

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* Reference	: EE(Project)Ynk Zone/WO/21/2016-17 Dated: 24.09.2016
* Sample ID	: Cement concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day
Sample Received on	: 16.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.10.2016	16.11.2016	8.225	606.5	26.96
2	19.10.2016	16.11.2016	8.310	615.3	27.35
3	19.10.2016	16.11.2016	8.410	628.3	27.92

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* **Sample ID** : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 18.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.10.2016	18.11.2016	8.112	605.3	26.90
2	21.10.2016	18.11.2016	8.230	613.5	27.27
3	21.10.2016	18.11.2016	8.316	615.3	27.35

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
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Compressive Strength as on	: 28th day
Sample Received on	: 18.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.10.2016	18.11.2016	8.105	610.5	27.13
2	21.10.2016	18.11.2016	8.280	625.3	27.79
3	21.10.2016	18.11.2016	8.335	638.9	28.40

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Compressive Strength as on : 28th day

Sample Received on : 18.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.10.2016	18.11.2016	8.113	605.5	26.91
2	21.10.2016	18.11.2016	8.273	617.8	27.46
3	21.10.2016	18.11.2016	8.315	629.8	27.99

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